

AMENDMENTS TO THE CLAIMS:

Please amend Claims 41, 49, 53, 59, 60, 62, 63, 66, 72, 76, and 77 and
add Claims 87 through 94 to read as follows:

1-40. (Cancelled)

41. (Currently Amended) A driver for use in a computing device having a
TCP/IP stack, said driver ~~encapsulating~~ receiving a first IP packet from the TCP/IP
stack of the computing device ~~within~~ and generating a second IP packet that
encapsulates the first IP packet, and
wherein the source IP address of the second IP packet is different from
the source IP address of the first IP packet.

42. (Previously Presented) A driver according to Claim 41, wherein said
driver sends the second IP packet onto a network.

43. (Previously Presented) A driver according to Claim 42, wherein the
network is the Internet.

44. (Previously Presented) A driver according to Claim 43, wherein an
apparatus on the Internet receives the second IP packet and obtains the first IP packet
from the second IP packet.

45. (Previously Presented) A driver according to Claim 44, wherein the apparatus on the Internet sends a packet comprising data from the data field of the first IP packet onto an IP network.

46. (Previously Presented) A driver according to Claim 44, wherein the apparatus on the Internet sends the first IP packet onto an IP network.

47. (Previously Presented) A driver according to Claim 46, wherein the first IP packet is addressed such that an IP packet sent by a second apparatus in response to the first IP packet is routed through the apparatus on the Internet.

48. (Previously Presented) A driver according to Claim 42, wherein when the TCP/IP stack generates an ARP request as part of transmitting the first IP packet through said driver, said driver generates an ARP response to the ARP request.

49. (Currently Amended) A driver according to Claim 43, wherein when the second IP packet is fragmented into a plurality of IP packets as a result of its packet size exceeding the maximum transmission unit (MTU) of the network, the plurality of IP packets are received by an apparatus on the Internet.

50. (Previously Presented) A driver according to Claim 49, wherein the apparatus on the Internet reassembles the plurality of IP packets into the second IP packet.

51. (Previously Presented) A driver according to Claim 50, wherein the apparatus on the Internet obtains the first IP packet from the second IP packet after reassembling the plurality of IP packets into the second IP packet.

52. (Previously Presented) A driver according to Claim 51, wherein the apparatus on the Internet sends the first IP packet onto a network.

53. (Currently Amended) A driver according to Claim 49, wherein said driver fragments the second IP packet into a plurality of IP packets in response to the packet size of the second IP packet exceeding ~~an~~ a maximum transmission unit (MTU).

54. (Previously Presented) A driver according to Claim 49, wherein the Internet is a cause of fragmentation of the second IP packet into a plurality of IP packets.

55. (Previously Presented) A driver according to Claim 41, wherein the computing device is a personal computing device.

56. (Previously Presented) A driver according to Claim 55, wherein the personal computing device is a personal computer.

57. (Previously Presented) A driver according to Claim 41, wherein said driver interfaces to the TCP/IP stack of the computing device using an ethernet device driver interface.

58. (Previously Presented) A driver according to Claim 41, wherein said driver interfaces to the TCP/IP stack of the computing device using a network driver interface specification.

59. (Currently Amended) A driver according to Claim 41, wherein said driver configures the TCP/IP stack of the computing device to have an a maximum transmission unit (MTU) of 1500 bytes.

60. (Currently Amended) A driver for use in a computing device having a TCP/IP stack, said driver being configured to send an a first IP packet from the TCP/IP stack through an IP tunnel across a network,
wherein the source IP address of an IP packet of the IP tunnel is different from the source IP address of the first IP packet.

61. (Previously Presented) A driver according to Claim 60, wherein the network is the Internet.

62. (Currently Amended) A driver according to Claim 60, wherein an apparatus on the network receives the IP packet through of the IP tunnel, and obtains the first IP packet from the IP packet of the IP tunnel.

63. (Currently Amended) A driver according to Claim 62, wherein the apparatus on the network sends the received first IP packet towards its destination via a network.

64. (Previously Presented) A driver according to Claim 60, wherein the computing device is a personal computing device.

65. (Previously Presented) A driver according to Claim 64, wherein the personal computing device is a personal computer.

66. (Currently Amended) A driver for use in an apparatus, said driver comprising:

means for receiving from a TCP/IP stack of the apparatus a first IP packet having as its source IP address a first IP address and having as its destination IP address a second IP address;

means for ~~placing the first IP packet within~~ generating a second IP packet by applying an encapsulation protocol to the first IP packet, the second IP packet having as its destination IP address an IP address of a gateway apparatus on the Internet; and

means for sending the second IP packet onto the Internet addressed to the gateway apparatus,

wherein the gateway apparatus obtains the first IP packet from the second IP packet, and

wherein the source IP address of the second IP packet is different from the source IP address of the first IP packet.

67. (Previously Presented) A driver according to Claim 66, wherein the gateway apparatus sends a packet comprising data from the data field of the first IP packet onto a network.

68. (Previously Presented) A driver according to Claim 66, wherein the gateway apparatus sends the first IP packet onto an IP network.

69. (Previously Presented) A driver according to Claim 68, wherein the first IP packet is addressed such that an IP packet sent by a second apparatus in response to the first IP packet is routed through the gateway apparatus.

70. (Previously Presented) A driver according to Claim 68, wherein when the TCP/IP stack generates an ARP request as part of transmitting the first IP packet through said driver, said driver generates an ARP response to the ARP request.

71. (Previously Presented) A driver according to Claim 68, wherein when the second IP packet is fragmented, by one or more of said driver and the Internet, into a plurality of IP packets as a result of its packet size, the plurality of IP packets are received by the gateway apparatus.

72. (Currently Amended) A driver according to Claim 71, wherein said driver fragments the second IP packet into a plurality of IP packets in response to the packet size of the second IP packet exceeding an a maximum transmission unit (MTU).

73. (Previously Presented) A driver according to Claim 71, wherein the Internet is a cause of fragmentation of the second IP packet into a plurality of IP packets.

74. (Previously Presented) A driver according to Claim 71, wherein the gateway apparatus reassembles the plurality of IP packets into the second IP packet.

D 75. (Previously Presented) A driver according to Claim 74, wherein the gateway apparatus obtains the first IP packet from the second IP packet after reassembling the plurality of IP packets into the second IP packet.

76. (Currently Amended) An apparatus comprising:
an internet browser; and
a TCP/IP stack for use with said internet browser,
wherein said internet browser sends a packet across the Internet to a second apparatus through (a) said TCP/IP stack, (b) a Network layer tunnel between said TCP/IP stack of said apparatus and a gateway apparatus, and (c) means for transmitting packets from the gateway apparatus to the second apparatus,
wherein a Network layer source address of a packet of the Network layer tunnel is different from a source IP address of an IP packet received by the Network layer tunnel from said TCP/IP stack.

77. (Currently Amended) An apparatus according to Claim 76, wherein the Network layer tunnel comprises an IP tunnel, and wherein the means for

transmitting packets from the gateway apparatus to the second apparatus is an IP network.

78. (Previously Presented) A personal computing device comprising:
a TCP/IP stack; and
a driver according to Claim 41.

79. (Previously Presented) A personal computing device comprising:
a TCP/IP stack; and
a driver according to Claim 60.

80. (Previously Presented) A personal computing device comprising:
a TCP/IP stack; and
a driver according to Claim 66.

81. (Previously Presented) A driver according to Claim 46, wherein an internet browser running on the computing device accesses a server through the TCP/IP stack of the computing device which sends a request to the server by way of said driver and the apparatus on the Internet,
wherein the server is on the IP network onto which the apparatus on the Internet sends the first IP packet.

82. (Previously Presented) A driver according to Claim 63, wherein an internet browser running on the computing device accesses a server through the

TCP/IP stack of the computing device which sends a request to the server by way of said driver and the apparatus on the network.

D 83. (Previously Presented) A driver according to Claim 66, wherein an internet browser running on the apparatus accesses a server through the TCP/IP stack of the apparatus which sends a request to the server by way of said driver and the gateway apparatus.

84. (Previously Presented) A driver according to Claim 60, wherein said driver interfaces to the TCP/IP stack of the computing device using an ethernet device driver interface.

85. (Previously Presented) A driver according to Claim 60, wherein said driver interfaces to the TCP/IP stack of the computing device using a network driver interface specification.

86. (Previously Presented) An apparatus according to Claim 76, wherein the connection between the gateway apparatus and the second apparatus is a network connection.

D² 87. (New) A driver according to Claim 41, wherein the data field of the second IP packet comprises the first IP packet.

88. (New) A driver according to Claim 87, wherein the data field of the second IP packet consists of the first IP packet as received by said driver from the TCP/IP stack.

89. (New) A driver according to Claim 66, wherein the data field of the second IP packet comprises the first IP packet.

90. (New) A driver according to Claim 89, wherein the data field of the second IP packet consists of the first IP packet as received by said receiving means from the TCP/IP stack.

91. (New) A driver according to Claim 43, wherein an apparatus on the Internet receives the second IP packet, and wherein from the second IP packet an IP packet is obtained comprising (a) for the source IP address, the first IP packet's source IP address, (b) for the destination IP address, the first IP packet's destination IP address, and (c) for the data field, the first IP packet's data field.

92. (New) A driver according to Claim 60, wherein the data field of the IP packet of the IP tunnel consists of the first IP packet as received by said driver from the TCP/IP stack.

93. (New) A driver according to Claim 60, wherein an apparatus on the network receives the IP packet of the IP tunnel, and wherein from the IP packet of the tunnel an IP packet is obtained comprising (a) for the source IP address, the first IP

packet's source IP address, (b) for the destination IP address, the first IP packet's destination IP address, and (c) for the data field, the first IP packet's data field.

94. (New) An apparatus according to Claim 76, wherein the Network layer packet is an IP packet, the data field of which consists of an IP packet as received by the Network layer tunnel from said TCP/IP stack.
